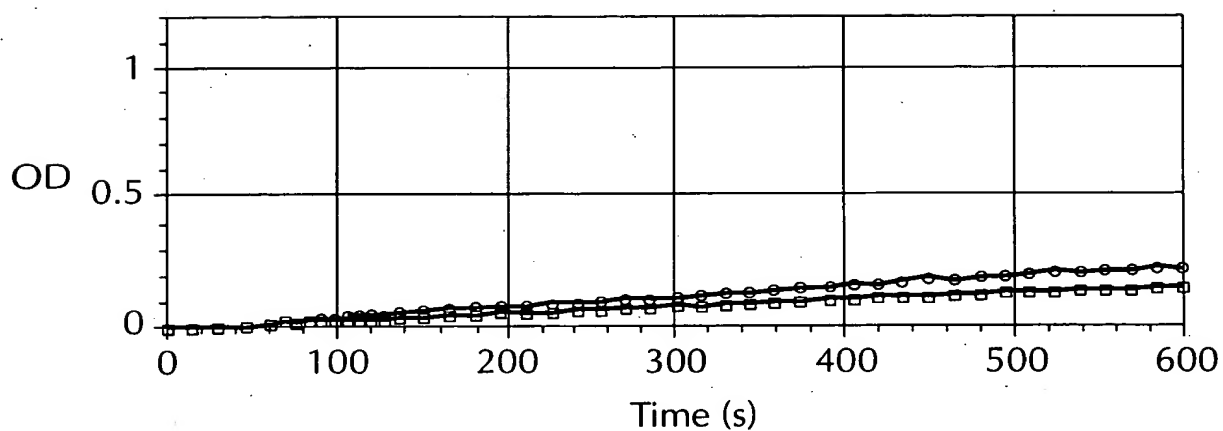
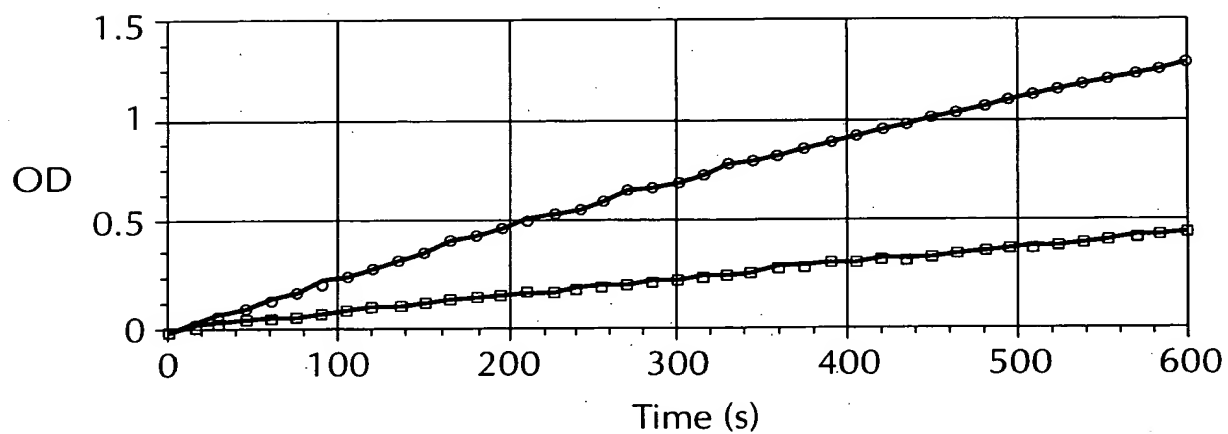


FIG. 1A



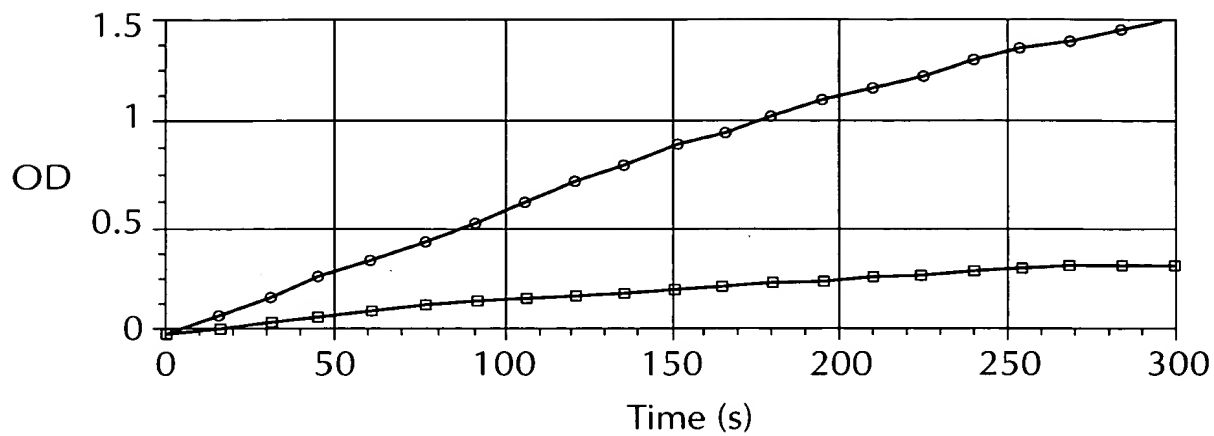
$$V_{app}(S) = 21.8 \quad V_{app}(R) = 14.9 \quad E_{app} = 1.5$$

FIG. 1B

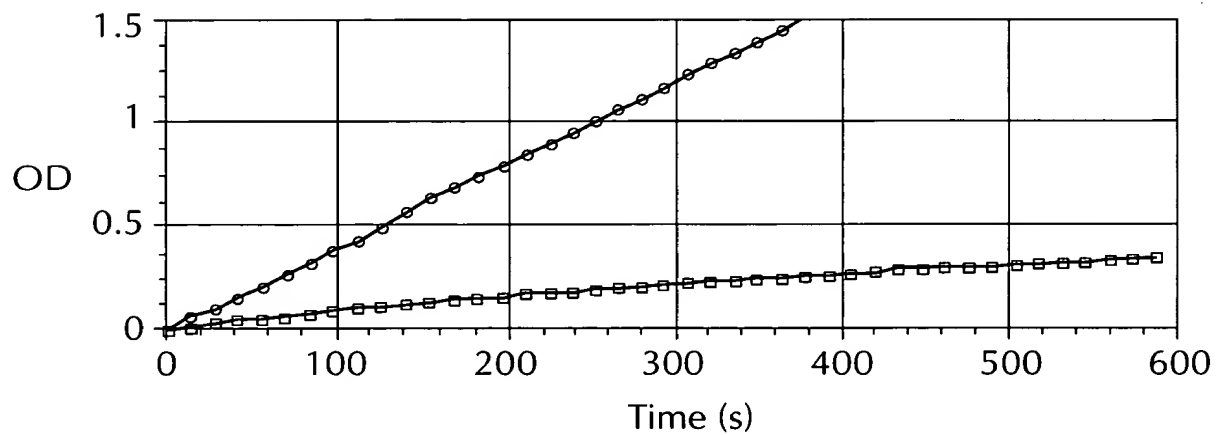


$$V_{app}(S) = 128.4 \quad V_{app}(R) = 43.2 \quad E_{app} = 3.0$$

+

FIG. 1C

$$V_{\text{app}}(\text{S}) = 310.8 \quad V_{\text{app}}(\text{R}) = 67.4 \quad E_{\text{app}} = 4.6$$

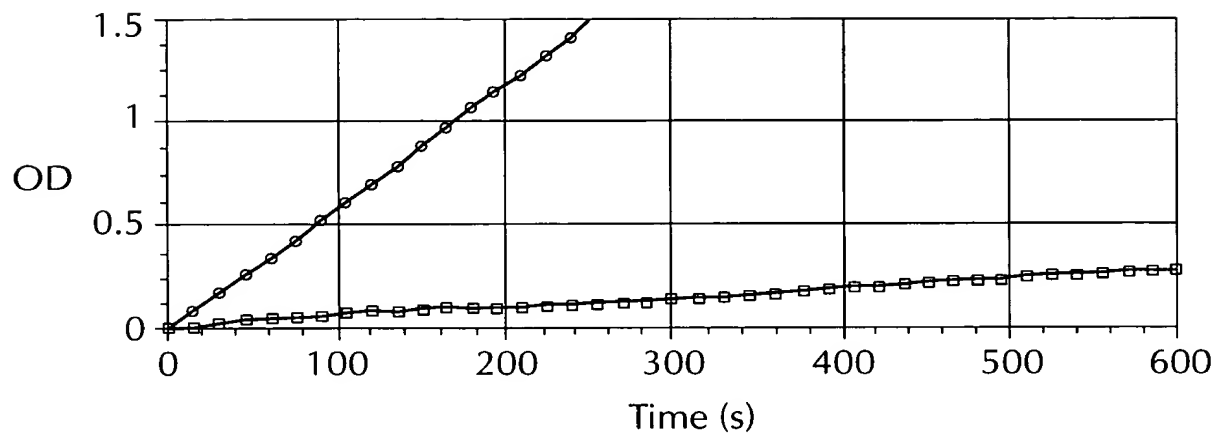
FIG. 1D

$$V_{\text{app}}(\text{S}) = 241.1 \quad V_{\text{app}}(\text{R}) = 35.2 \quad E_{\text{app}} = 6.9$$

+

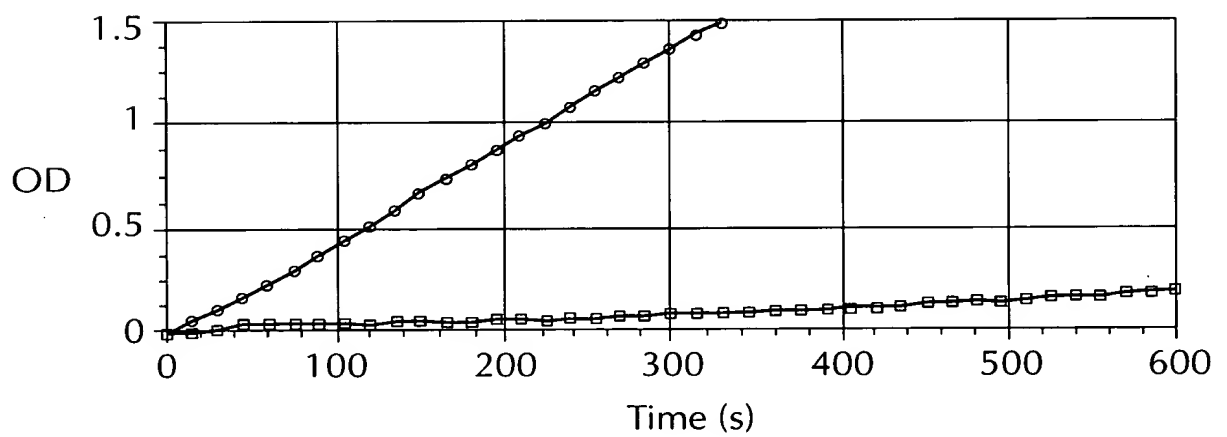


FIG. 1E



$$V_{app}(S) = 355.6 \quad V_{app}(R) = 26.5 \quad E_{app} = 13.4$$

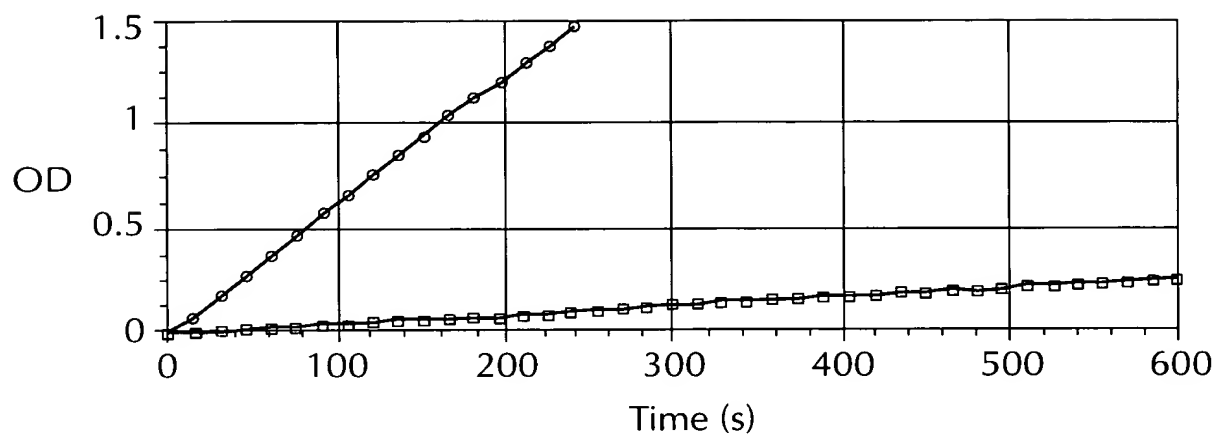
FIG. 1F



$$V_{app}(S) = 275.9 \quad V_{app}(R) = 17.3 \quad E_{app} = 15.9$$



FIG. 1G



$$V_{\text{app}}(\text{S}) = 384.7 \quad V_{\text{app}}(\text{R}) = 25.3 \quad E_{\text{app}} = 15.2$$

FIG. 2A

		10	
WILD TYPE	G G A T C C C C C	G G T T C T C C C G G	19
P1B 01-H1	G G A T C C C C C	C G G T T C T C C C G G	20
P1B 01-E4	G G A T C C C C C	C G G T T C T C C C G G	20
P2B 08-H3	G G A T C C C C C	C G G T T C T C C C G G	20
P3B 13-D10	G G A T C C C C C	C G G T T C T C C C G G	20
P4B 04-H3	G G A T C C C C C	C G G T T C T C C C G G	20
P5B 14-C11	G G A T C C C C C	C G G T T C T C C C G G	20
P4BSF 03-G10	G G A T C C C C C	C G G T T C T C C C G G	20
	20	30	
WILD TYPE	A A G G A T T C G G G C G A T G G C T G		39
P1B 01-H1	A A G G A T T C G G G C G A T G G C T G		40
P1B 01-E4	A A G G A T T C G G G C G A T G G C T G		40
P2B 08-H3	A A G G A T T C G G G C G A T G G C T G		40
P3B 13-D10	A A G G A T T C G G G C G A T G G C T G		40
P4B 04-H3	A A G G A T T C G G G C G A T G G C T G		40
P5B 14-C11	A A G G A T T C G G G C G A T G G C T G		40
P4BSF 03-G10	A A G G A T T C G G G C G A T G G C T G		40
	40	50	
WILD TYPE	G C A G G A C G C G C C C C T C G G C C		59
P1B 01-H1	G C A G G A C G C G C C C C T C G G C C		60
P1B 01-E4	G C A G G A C G C G C C C C T C G G C C		60
P2B 08-H3	G C A G G A C G C G C C C C T C G G C C		60
P3B 13-D10	G C A G G A C G C G C C C C T C G G C C		60
P4B 04-H3	G C A G G A C G C G C C C C T C G G C C		60
P5B 14-C11	G C A G G A C G C G C C C C T C G G C C		60
P4BSF 03-G10	G C A G G A C G C G C C C C T C G G C C		60
	60	70	
WILD TYPE	C C A T C A A C C T G A G A T G A G A A		79
P1B 01-H1	C C A T C A A C C T G A G A T G A G A A		80
P1B 01-E4	C C A T C A A C C T G A G A T G A G A A		80
P2B 08-H3	C C A T C A A C C T G A G A T G A G A A		80
P3B 13-D10	C C A T C A A C C T G A G A T G A G A A		80
P4B 04-H3	C C A T C A A C C T G A G A T G A G A A		80
P5B 14-C11	C C A T C A A C C T G A G A T G A G A A		80
P4BSF 03-G10	C C A T C A A C C T G A G A T G A G A A		80
	80	90	
WILD TYPE	C A A C A T G A A G A A G A A G T C T C		99
P1B 01-H1	C A A C A T G A A G A A G A A G T A T C		100
P1B 01-E4	C A A C A T G A A G A A G A A G T C T C		100
P2B 08-H3	C A A C A T G A A G A A G A A G T C T C		100
P3B 13-D10	C A A C A T G A A G A A G A A G T C T C		100
P4B 04-H3	C A A C A T G A A G A A G A A G T C T C		100
P5B 14-C11	C A A C A T G A A G A A G A A G T C T C		100
P4BSF 03-G10	C A A C A T G A A G A A G A A G T C T C		100
	100	110	
WILD TYPE	T G C T C C C C C T C G G C C T G G C C		119
P1B 01-H1	T G C T C C C C C T C G G C C T G G C C		120
P1B 01-E4	T G C T C C C C C T C G G C C T G G C C		120
P2B 08-H3	T G C T C C C C C T C G G C C T G G C C		120
P3B 13-D10	T G C T C C C C C T C G G C C T G G C C		120
P4B 04-H3	T G C T C C C C C T C G G C C T G G C C		120
P5B 14-C11	T G C T C C C C C T C G G C C T G G C C		120
P4BSF 03-G10	T G C T C C C C C T C G G C C T G G C C		120

FIG. 2B

	120	130	
WILD TYPE	A T C G G T C T C G C C T C T C T C G C	139	
P1B 01-H1	A T C G G T C T C G C C T C T C T C G C	140	
P1B 01-E4	A T C G G T C T C G C C T C T C T C G C	140	
P2B 08-H3	A T C G G T C T C G C C T C T C T C G C	140	
P3B 13-D10	A T C G G T C T C G C C T C T C T C G C	140	
P4B 04-H3	A T C G G T C T C G C C T C T C T C G C	140	
P5B 14-C11	A T C G G T C T C G C C T C T C T C G C	140	
P4BSF 03-G10	A T C G G T C T C G C C T C T C T C G C	140	
	140	150	
WILD TYPE	T G C C A G C C C T C T G A T C C A G G	159	
P1B 01-H1	T G C C A G C C C T C T G A T C C A G G	160	
P1B 01-E4	T G C C A G C C C T C T G A T C C A G G	160	
P2B 08-H3	T G C C A G C C C T C T G A T C C A G G	160	
P3B 13-D10	T G C C A G C C C T C T G A T C C A G G	160	
P4B 04-H3	T G C C A G C C C T C T G A T C C A G G	160	
P5B 14-C11	T G C C A G C C C T C T G A T C C A G G	160	
P4BSF 03-G10	T G C C A G C C C T C T G A T C C A G G	160	
	160	170	
WILD TYPE	C C A G C A C C T A C A C C C A G A C C	179	
P1B 01-H1	C C A G C A C C T A C A C C C A G A C C	180	
P1B 01-E4	C C A G C A C C T A C A C C C A G A C C	180	
P2B 08-H3	C C A G C A C C T A C A C C C A G A C C	180	
P3B 13-D10	C C A G C A C C T A C A C C C A G A C C	180	
P4B 04-H3	C C A G C A C C T A C A C C C A G A C C	180	
P5B 14-C11	C C A G C A C C T A C A C C C A G A C C	180	
P4BSF 03-G10	C C A G C A C C T A C A C C C A G A C C	180	
	180	190	
WILD TYPE	A A A T A C C C C A T C G T G C T G G C	199	
P1B 01-H1	A A A T A C C C C A T C G T G C T G G C	200	
P1B 01-E4	A A A T A C C C C A T C G T G C T G G C	200	
P2B 08-H3	A A A T A C C C C A T C G T G C T G G C	200	
P3B 13-D10	A A A T A C C C C A T C G T G C T G G C	200	
P4B 04-H3	A A A T A C C C C A T C G T G C T G G C	200	
P5B 14-C11	A A A T A C C C C A T C G T G C T G G C	200	
P4BSF 03-G10	A A A T A C C C C A T C G T G C T G G C	200	
	200	210	
WILD TYPE	C C A C G G C A T G C T C G G C T T C G	219	
P1B 01-H1	C C A C G G C A T G C T C G G C T T C G	220	
P1B 01-E4	C C A C G G C A T G C T C G G C T T C G	220	
P2B 08-H3	C C A C G G C A T G C T C G G C T T C G	220	
P3B 13-D10	C C A C G G C A T G C T C G G C T T C G	220	
P4B 04-H3	C C A C G G C A T G C T C G G C T T C G	220	
P5B 14-C11	C C A C G G C A T G C T C G G C T T C G	220	
P4BSF 03-G10	C C A C G G C A T G C T C G G C T T C G	220	
	220	230	
WILD TYPE	A C A A C A T C C T C G G G G T C G A C	239	
P1B 01-H1	T G C T C C C C C T C G G G C C T G G C C	240	
P1B 01-E4	T G C T C C C C C T C G G G C C T G G C C	240	
P2B 08-H3	T G C T C C C C C T C G G G C C T G G C C	240	
P3B 13-D10	T G C T C C C C C T C G G G C C T G G C C	240	
P4B 04-H3	T G C T C C C C C T C G G G C C T G G C C	240	
P5B 14-C11	T G C T C C C C C T C G G G C C T G G C C	240	
P4BSF 03-G10	T G C T C C C C C T C G G G C C T G G C C	240	

FIG. 2C

	240	250	
WILD TYPE	T A C T G G T T C G G C A T T C C C A G	259	
P1B 01-H1	T A C T G G T T C G G C A T T C C C A G	260	
P1B 01-E4	T A C T G G T T C G G C A T T C C C A G	260	
P2B 08-H3	T A C T G G T T C G G C A T T C C C A G	260	
P3B 13-D10	T A C T G G T T C G G C A T T C C C A G	260	
P4B 04-H3	T A C T G G T T C G G C A T T C C C A <u>A</u>	260	
P5B 14-C11	T A C T G G T T C G G C A T T C C C A G	260	
P4BSF 03-G10	T A C T G G T T C G G C A T T C C C A G	260	
	260	270	
WILD TYPE	C G C C T T G C G C C G T G A C G G T G	279	
P1B 01-H1	C G C C T T G C G C C G T G A C G G T G	280	
P1B 01-E4	C G C C T T G C G C C G T G A C G G T G	280	
P2B 08-H3	C G C C T T G C G C C G T G A C G G T G	280	
P3B 13-D10	C G C C T T G C G C C G T G A C G G T G	280	
P4B 04-H3	C G C C T T G C G C C G T G A C G G T G	280	
P5B 14-C11	C G C C T T G C G C C G T G A C G G T G	280	
P4BSF 03-G10	C G C C T T G C G C C G T G A C G G T G	280	
	280	290	
WILD TYPE	C C C A G G T C T A C G T C A C C G A A	299	
P1B 01-H1	C C C A G G T C T A C G T C A C C G A A	300	
P1B 01-E4	C C C A G G T C T A C G T C A C C G A A	300	
P2B 08-H3	C C C A G G T C T A C G T C A C C G A A	300	
P3B 13-D10	C C C A G G T C T A C G T C A C C G A A	300	
P4B 04-H3	C C C A G G T C T A C G T C A C C G A A	300	
P5B 14-C11	C C C A G G T C T A C G T C A C C G A A	300	
P4BSF 03-G10	C C C A G G T C T A C G T C A C C G A A	300	
	300	310	
WILD TYPE	G T C A G C C A G T T G G A C A C C T C	319	
P1B 01-H1	G T C A G C C A G T T G G A C A C C T C	320	
P1B 01-E4	G T C A G C C A G T T G G A C A C C T C	320	
P2B 08-H3	G T C A G C C A G T T G G A C A C C T C	320	
P3B 13-D10	<u>G</u> G C A G C C A G T T G G A C A C C T C	320	
P4B 04-H3	G G C A G C C A G T T G G A C A C C T C	320	
P5B 14-C11	G G C A G C C A G T T G G A C A C C T C	320	
P4BSF 03-G10	<u>G</u> G C A G C C A G T T G G A C A C C T C	320	
	320	330	
WILD TYPE	G G A A G T C C G C G G C G A G C A G T	339	
P1B 01-H1	G G A A G T C C G C G G C G A G C A G T	340	
P1B 01-E4	G G A A G T C C G C G G C G A G C A G T	340	
P2B 08-H3	G G A A G T C C G C G G C G A G C A G T	340	
P3B 13-D10	G G A A G T C C G C G G C G A G C A G T	340	
P4B 04-H3	G G A A G T C C G C G G C G A G C A G T	340	
P5B 14-C11	G G A A G T C C G C G G C G A G C A G T	340	
P4BSF 03-G10	G G A A G T C C G C G G C G A G C A G T	340	
	340	350	
WILD TYPE	T G C T G C A A C A G G T G G A G G A A	359	
P1B 01-H1	T G C T G C A A C A G G T G G A G G A A	360	
P1B 01-E4	T G C T G C A A C A G G T G G A G G A A	360	
P2B 08-H3	T G C T G C A A C A G G T G G A G G A A	360	
P3B 13-D10	T G C T G C A A C A G G T G G A G G A A	360	
P4B 04-H3	T G C T G C A A C A G G T G G A G G A A	360	
P5B 14-C11	T G C T G C A A C A G G T G G A G G A A	360	
P4BSF 03-G10	T G C T G C A A C A G G T G G A G G A A	360	

FIG. 2D

	360	370	
WILD TYPE	A T C G T C G C C C T C A G C G G C C A	379	
P1B 01-H1	A T C G T C G C C C T C A G C G G C C A	380	
P1B 01-E4	A T C G T C G C C C T C A G C G G C C A	380	
P2B 08-H3	A T C G T C G C C C T C A G C G G C C A	380	
P3B 13-D10	A T C G T C G C C C T C A G C G G C C A	380	
P4B 04-H3	A T C G T C G C C C T C A G C G G C C A	380	
P5B 14-C11	A T C G T C G C C C T C A G C G G C C A	380	
P4BSF 03-G10	A T C G T C G C C C T C A G C G G C C A	380	

	380	390	
WILD TYPE	G C C C A A G G T C A A C C T G A T C G	399	
P1B 01-H1	G C C C A A G G T C A A C C T G A T C G	400	
P1B 01-E4	G C C C A A G G T C A A C C T G A T C G	400	
P2B 08-H3	G C C C A A G G T C A A C C T G A T C G	400	
P3B 13-D10	G C C C A A G G T C A A C C T G A T C G	400	
P4B 04-H3	G C C C A A G G T C A A C C T G A T C G	400	
P5B 14-C11	G C C C A A G G T C A A C C T G A T C G	400	
P4BSF 03-G10	G C C C A A G G T C A A C C T G A T C G	400	

	400	410	
WILD TYPE	G C C A C A G C C A C G G C G G G C C G	419	
P1B 01-H1	G C C A C A G C C A C G G C G G G C C G	420	
P1B 01-E4	G C C A C A G C C A C G G C G G G C C G	420	
P2B 08-H3	G C C A C A G C C A C G G C G G G C C G	420	
P3B 13-D10	G C C A C A G C C A C G G C G G G C C G	420	
P4B 04-H3	G C C A C A G C C A C G G C G G G C C G	420	
P5B 14-C11	G C C A C A G C C A C G G C G G G C C G	420	
P4BSF 03-G10	G C C A C A G C C A C G G C G G G C C G	420	

	420	430	
WILD TYPE	A C C A T C C G C T A C G T C G C C G C	439	
P1B 01-H1	A C C A T C C G C T A C G T C G C C G C	440	
P1B 01-E4	A C C A T C C G C T A C G T C G C C G C	440	
P2B 08-H3	A C C A T C C G C T A C G T C G C C G C	440	
P3B 13-D10	A C C A T C C G C T A C G T C G C C G C	440	
P4B 04-H3	A C C A T C C G C T A C G T C G C C G C	440	
P5B 14-C11	A C C A T C C G C T A C G T C G C C G C	440	
P4BSF 03-G10	A C C A T C C G C T A C G T C G C C G C	440	

	440	450	
WILD TYPE	C G T A C G T C C C G A C C T G A T C G	459	
P1B 01-H1	C G T A C G T C C C G A C C T G A T C G	460	
P1B 01-E4	C G T A C G T C C C G A C C T G A T C G	460	
P2B 08-H3	C G T A C G T C C C G A C C T G A T C G	460	
P3B 13-D10	C G T A C G T C C C G A C C T G A T C G	460	
P4B 04-H3	C G T A C G T C C C G A C C T G A T C G	460	
P5B 14-C11	C G T A C G T C C C G A C C T G A T C G	460	
P4BSF 03-G10	C G T A C G T C C C G A C C T G A T C G	460	

	460	470	
WILD TYPE	C T T C C G C C A C C A G C G T C G G C	479	
P1B 01-H1	C T T C C G C C A C C A G C G T C G G C	480	
P1B 01-E4	C T T C C G C C A C C A G C G T C G G C	480	
P2B 08-H3	C T T C C G C C A C C A G C G T C G G C	480	
P3B 13-D10	C T T C C G C C A C C A G C G T C G G C	480	
P4B 04-H3	C T T C C G C C A C C A G C G T C G G C	480	
P5B 14-C11	C T T C C G C C A C C A G C G T C G G C	480	
P4BSF 03-G10	C T T C C G C C A C C A G C G T C G G C	480	

FIG. 2E

	480	490	
WILD TYPE	G C C C C G C A C A A G G G T T C G G A	499	
P1B 01-H1	G C C C C G C A C A A G G G T T C G G A	500	
P1B 01-E4	G C C C C G C A C A A G G G T T C G G A	500	
P2B 08-H3	G C C C C G C A C A A G G G T T C G G A	500	
P3B 13-D10	G C C C C G C A C A A G G G T T C G G A	500	
P4B 04-H3	G C C C C G C A C A A G G G T T C G G A	500	
P5B 14-C11	G C C C C G C A C A G G G G T T C G G A	500	
P4BSF 03-G10	G C C C C G C A C A A G G G T T C G G A	500	
	500	510	
WILD TYPE	C A C C G C C G A C T T C C T G C G C C	519	
P1B 01-H1	C A C C G C C G A C T T C C T G C G C C	520	
P1B 01-E4	C A C C G C C G A C T T C C T G C G C C	520	
P2B 08-H3	C A C C G C C G A C T T C C T G C G C C	520	
P3B 13-D10	C A C C G C C G A C T T C C T G C G C C	520	
P4B 04-H3	C A C C G C C G A C T T C C T G C G C C	520	
P5B 14-C11	C A C C G C C G A C T T C C T G C G C C	520	
P4BSF 03-G10	C A C C G C C G A C T T C C T G C G C C	520	
	520	530	
WILD TYPE	A G A T C C C A C C G G G T T C G G C C	539	
P1B 01-H1	A G A T C C C A C C G G G T T C G G C C	540	
P1B 01-E4	A G A T C C C A C C G G G T T C G G C C	540	
P2B 08-H3	A G A T C C C A C C G G G T T C G G C C	540	
P3B 13-D10	A G A T C C C A C C G G G T T C G G C C	540	
P4B 04-H3	A G A T C C C A C C G G G T T C G G C C	540	
P5B 14-C11	A G A T C C C A C C G G G T T C G G C C	540	
P4BSF 03-G10	A G A T C C C A C C G G G T T C G G C C	540	
	540	550	
WILD TYPE	G G C G A G G C A G T C C T C T C C G G	559	
P1B 01-H1	G G C G A G G C A G T C C T C T C C G G	560	
P1B 01-E4	G G C G A G G C A G T C C T C T C C G G	560	
P2B 08-H3	G G C G A G G C A G T C C T C T C C G G	560	
P3B 13-D10	G G C G A G G C A G T C C T C T C C G G	560	
P4B 04-H3	G G C G A G G C A G T C C T C T C C G G	560	
P5B 14-C11	G G C G A G G C A G T C C T C T C C G G	560	
P4BSF 03-G10	G G C G A G G C A G T C C T C T C C G G	560	
	560	570	
WILD TYPE	G C T G G T C A A C A G C C T C G G C G	579	
P1B 01-H1	G C T G G T C A A C A G C C T C G G C G	580	
P1B 01-E4	G C T G G T C A A C A G C C T C G G C G	580	
P2B 08-H3	G C T G G T C A A C A G C C T C G G C G	580	
P3B 13-D10	G C T G G T C A A C A G C C T C G G C G	580	
P4B 04-H3	G C T G G T C A A C A G C C T C G G C G	580	
P5B 14-C11	G C T G G T C A A C A G C C T C G G C G	580	
P4BSF 03-G10	G C T G G T C A A C A G C C T C G G C G	580	
	580	590	
WILD TYPE	C G C T G A T C A G C T T C C T T T C C	599	
P1B 01-H1	C G C T G A T C A G C T T C C T T T C C	600	
P1B 01-E4	C G C T G A T C A G C T T C C T T T C C	600	
P2B 08-H3	C G C T G A T C A G C T T C C T T T C C	600	
P3B 13-D10	C G C T G A T C A G C T T C C T T T C C	600	
P4B 04-H3	C G C T G A T C A G C T T C C T T T C C	600	
P5B 14-C11	C G C T G A T C A G C T T C C T T T C C	600	
P4BSF 03-G10	C G C T G A T C A G C T T C C T T T C C	600	

FIG. 2F

	600	610	
WILD TYPE	A G C G G C	A G C A C C G G T A C G C A	619
P1B 01-H1	A G C G G C G G C A C C G G T A C G C A		620
P1B 01-E4	A G C G G C G G C A C C G G T A C G C A		620
P2B 08-H3	A G C G G C G G C A C C G G T A C G C A		620
P3B 13-D10	A G C G G C G G C A C C G G T A C G C A		620
P4B 04-H3	A G C G G C G G C A C C G G T A C G C A		620
P5B 14-C11	A G C G G C G G C A C C G G T A C G C A		620
P4BSF 03-G10	A G C G G C G G C A T C G G T A C G C A		620
	620	630	
WILD TYPE	G A A T T C	A C T G G G C T C G C T G G	639
P1B 01-H1	G A A T T C	A C T G G G C T C G C T G G	640
P1B 01-E4	G A A T T C	A C T G G G C T C G C T G G	640
P2B 08-H3	G A A T T T A C T G G G C T C G C T G G		640
P3B 13-D10	G A A T T T A C T G G G C T C G C T G G		640
P4B 04-H3	G A A T T T A C T G G G C T C G C T G G		640
P5B 14-C11	G A A T T T A C T G G G C T C G C T G G		640
P4BSF 03-G10	G A A T T T T C T G G G C T C G C T G G		640
	640	650	
WILD TYPE	A G T C G C T G A A C A G C G A G G G T		659
P1B 01-H1	A G T C G C T G A A C A G C G A G G G T		660
P1B 01-E4	A G T C G C T G A A C A G C G A G G G T		660
P2B 08-H3	A G T C G C T G A A C A G C G A G G G T		660
P3B 13-D10	A G T C G C T G A A C A G C G A G G G T		660
P4B 04-H3	A G T C G C T G A A C A G C G A G G G T		660
P5B 14-C11	A G T C G C T G A A C A G T G A G G G T		660
P4BSF 03-G10	A G T C G C T G A A C A G C G A G G G T		660
	660	670	
WILD TYPE	G C C G C G C G C T T C A A C G C C A A		679
P1B 01-H1	G C C G C G C G C T T C A A C G C C A A		680
P1B 01-E4	G C C G C G C G C T T C A A C G C C A A		680
P2B 08-H3	G C C G C G C G C T T C A A C G C C A A		680
P3B 13-D10	G C C G C G C G C T T C A A C G C C A A		680
P4B 04-H3	G C C G C G C G C T T C A A C G C C A A		680
P5B 14-C11	G C C G C G C G C T T C A A C G C C A A		680
P4BSF 03-G10	G C C G C G C G C T T C A A C G C C A A		680
	680	690	
WILD TYPE	G T A C C C G C A G G G C A T C C C C A		699
P1B 01-H1	G T A C C C G C A G G G C A T C C C C A		700
P1B 01-E4	G T A C C C G C A G G G C A T C C C C A		700
P2B 08-H3	G T A C C C G C A G G G C A T C C C C A		700
P3B 13-D10	G T A C C C G C A G G G C A T C C C C A		700
P4B 04-H3	G T A C C C G C A G G G C A T C C C C A		700
P5B 14-C11	G T A C C C G C A G G G C A T C C C C A		700
P4BSF 03-G10	G T A C C C G C A G G G C A T C C C C A		700
	700	710	
WILD TYPE	C C T C G G C C T G C G G C G A A G G C		719
P1B 01-H1	C C T C G G C C T G C G G C G A A G G C		720
P1B 01-E4	C C T C G G C C T G C G G C G A A G G C		720
P2B 08-H3	C C T C G G C C T G C G G C G A A G G C		720
P3B 13-D10	C C T C G G C C T G C G G C G A A G G C		720
P4B 04-H3	C C T C G G C C T G C G G C G A A G G C		720
P5B 14-C11	C C T C G G C C T G C G G C G A A G G C		720
P4BSF 03-G10	C C T C G G C C T G C G G C G A A G G C		720

WILD TYPE

P1B 01-H1	G C C T A C A A G G T C A A C G G C G T	740
P1B 01-E4	G C C T A C A A G G T C A A C G G C G T	740
P2B 08-H3	G C C T A C A A G G T C A A C G G C G T	740
P3B 13-D10	G C C T A C A A G G T C A A C G G C G T	740
P4B 04-H3	G C T T A C A A G G T C A A C G G C G T	740
P5B 14-C11	G C T T A C A A G G T C A A C G G C G T	740
P4BSE 03-G10	G C C T A C A A G G T C A A C G G C G T	740

WILD TYPE

WED FILE	CHGCTATTACTCCTGGAGCG	
P1B 01-H1	GAGCTATTACTCCTGGAGCG	760
P1B 01-E4	GAGCTATTACTCCTGGAGCG	760
P2B 08-H3	GAGCTATTACTCCTGGAGCG	760
P3B 13-D10	GAGCTATTACTCCTGGAGCG	760
P4B 04-H3	GAGCTATTACTCCTGGAGCG	760
P5B 14-C11	GAGCTATTACTCCTGGAGCG	760
P4BSF 03-G10	GAGCTATTACTCCTGGAGCG	760

WILD TYPE

P1B 01-H1	G T T C C T C G C C G C T G A C C A A C	780
P1B 01-E4	G T T C C T C G C C G C T G A C C A A C	780
P2B 08-H3	G T T C C T C G C C G C T G A C C A A C	780
P3B 13-D10	G T T C C T C G C C G C T G A C C A A C	780
P4B 04-H3	G T T C C T C G C C G C T G A C C A A C	780
P5B 14-C11	G T T C C T C G C C G C T G A C C A A C	780
P4BSF 03-G10	G T T C C T C G C C G C T G A C C A A C	780

WILD TYPE

P1B 01-H1	T T C C T C G A T C C G A G C G A C G C	800
P1B 01-E4	T T C C T C G A T C C G A G C G A C G C	800
P2B 08-H3	T T C C T C G A T C C G A G C G A C G C	800
P3B 13-D10	T T C C T C G A T C C G A G C G A C G C	800
P4B 04-H3	T T C C T C G A T C C G A G C G A C G C	800
P5B 14-C11	T T C C T C G A T C C G A G C G A C G C	800
P4BSF 03-G10	T T C C T C G A T C C G A G C G A C G C	800

WILD TYPE

P1B 01-H1	C T T C C T C G G C G C C T C G T C G C	820
P1B 01-E4	C T T C C T C G G C G C C T C G T C G C	820
P2B 08-H3	C T T C C T C G G C G C C T C G T C G C	820
P3B 13-D10	C T T C C T C G G C G C C T C G T C G C	820
P4B 04-H3	C T T C C T C G G C G C C T C G T C G C	820
P5B 14-C11	C T T C C T C G G C G C C T C G T C G C	820
P4BSF 03-G10	C T T C C T C G G C G C C T C G T C G C	820

WILD TYPE

P1B 01-H1	TGACCTTC AAGAACGGCACCC	840
P1B 01-E4	TGACCTTC AAGAACGGCACCC	840
P2B 08-H3	TGACCTTC AAGAACGGCACCC	840
P3B 13-D10	TGACCTTC AAGAACGGCACCC	840
P4B 04-H3	TGACCTTC AAGAACGGCACCC	840
P5B 14-C11	TGACCTTC AAGAACGGCACCC	840
P4BSF 03-G10	TGACCTTC AAGAACGGCACCC	840

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FIG. 2I

	960	970	
WILD TYPE	A C C A G C C C G G T C A G C G T C T A	979	
P1B 01-H1	A C C A G C C C G G T C A G C G T C T A	980	
P1B 01-E4	A C C A G C C C G G T C A G C G T C T A	980	
P2B 08-H3	A C C A G C C C G G T C A G C G T C T A	980	
P3B 13-D10	A C C A G C C C G G T C A G C G T C T A	980	
P4B 04-H3	A C C A G C C C G G T C A G C G T C T A	980	
P5B 14-C11	A C C A G C C C G G T C A G C G T C T A	980	
P4BSF 03-G10	A C C A G C C C G G T C A G C G T C T A	980	
	980	990	
WILD TYPE	C C G C C A G C A C G C C A A C C G C C	999	
P1B 01-H1	C C G C C A G C A C G C C A A C C G C C	1000	
P1B 01-E4	C C G C C A G C A C G C C A A C C G C C	1000	
P2B 08-H3	C C G C C A G C A C G C C A A C C G C C	1000	
P3B 13-D10	C C G C C A G C A C G C C A A C C G C C	1000	
P4B 04-H3	C C G C C A G C A C G C C A A C C G C C	1000	
P5B 14-C11	C C G C C A G C A C G C C A A C C G C C	1000	
P4BSF 03-G10	C C G C C A G C A C G C C A A C C G C C	1000	
	1000	1010	
WILD TYPE	T G A A G A A C G C C A G C C T G T A G	1019	
P1B 01-H1	T G A A G A A C G C C A G C C T G T A G	1020	
P1B 01-E4	T G A A G A A C G C C A G C C T G T A G	1020	
P2B 08-H3	T G A A G A A C G C C A G C C T G T A G	1020	
P3B 13-D10	T G A A G A A C G C C A G C C T G T A G	1020	
P4B 04-H3	T G A A G A A C G C C A G C C T G T A G	1020	
P5B 14-C11	T G A A G A A C G C C A G C C T G T A G	1020	
P4BSF 03-G10	T G A A G A A C G C C A G C C T G T A G	1020	
	1020	1030	
WILD TYPE	G A C C C C G G C C G G G G C C T C G G	1039	
P1B 01-H1	G A C C C C G G C C G G G G C C T C G G	1040	
P1B 01-E4	G A C C C C G G C C G G G G C C T C G G	1040	
P2B 08-H3	G A C C C C G G C C G G G G C C T C G G	1040	
P3B 13-D10	G A C C C C G G C C G G G G C C T C G G	1040	
P4B 04-H3	G A C C C C G G C C G G G G C C T C G G	1040	
P5B 14-C11	G A C C C C G G C C G G G G C C T C G G	1040	
P4BSF 03-G10	G A C C C C G G C C G G G G C C T C G G	1040	
	1040		
WILD TYPE	C C C G G G C C C	1047	
P1B 01-H1	C C C G G G C C C	1049	
P1B 01-E4	C C C G G G C C C	1049	
P2B 08-H3	C C C G G G C C C	1049	
P3B 13-D10	C C C G G G C C C	1049	
P4B 04-H3	C C C G G G C C C [G]	1049	
P5B 14-C11	C C C G G G C C C	1049	
P4BSF 03-G10	C C C G G G C C C	1049	